USMC NETWORK OPERATIONS (NETOPS)

USMC Network Operations (NetOps) is the Marine Corps-wide operational, organizational, and technical construct for operating and defending the Marine Corps Enterprise Network (MCEN) from the core to the tactical edge. NetOps is defined as the integrated planning and employment of military capabilities to provide the friendly net environment needed to plan, control and execute military operations and conduct Service functions. It involves time-critical, operational-level net security. NetOps relies on the understanding, application, and integration of information technology, technology standards, and standard processes that provide traditional systems and network management (Fault Management, Configuration Management, Accounting Management, Performance Management, and Security Management); information and infrastructure protection; and the ability to maneuver information across Global Information Grid terrestrial, space, airborne and wireless environments. NetOps is conducted at all levels of command (strategic, operational, and tactical) and influences all core constituents of the MCEN: communications infrastructure, computing, information assurance, and enterprise services. It provides commanders with MCEN Situational Awareness and MCEN C2 capabilities through the integration of Enterprise Management, Net Defense, and Content Management.

Marine Corps Network Operations and Security Center (MCNOSC) is the Corps' nucleus for executing the NetOps mission including enterprise network services, network support to deploying forces, technical development of network-enabled IT solutions, and providing the Marine Corps with a responsive, cohesive, and formidable global network defense capability. As the pervasive threats to our network grow while the complexity of the network evolves in support of net-centric capabilities, the MCNOSC leads the defensive fight against the enemy and provides the means by which to integrate the network into a single weapons system. The MCNOSC performs the first two of the three NetOps Essential Tasks. Marine Corps Enterprise Information Technology Services (MCEITS) handles MCEN Content Management.

MCEN ENTERPRISE MANAGEMENT

MCEN Enterprise Management (MEM) is the functional capabilities and operational processes necessary to monitor, manage, and control the availability, allocation, and performance within and across the MCEN. MEM includes Enterprise Services Management, Application Management, Systems Management, Network Management, Computing Infrastructure Management, Satellite Communications Management, and Electromagnetic Spectrum Management. MCNOSC performs MEM via the following initiatives:

- *Operations Center* monitors and maintains situational awareness of MCEN operations 24 X 7
- *Defense Messaging System Central Operations Center*
- *Expeditionary Support* team provides

network support to deploying or deployed Marine forces

- *Mainframe Enterprise Services* provides mainframe management and support
- *Network Operating System* standardization and support for the enterprise
- *Marine Corps Circuit Management Office*
- *E-LMR* engineering and technical support
- *Network Plans and Engineering* evaluates and develops network-based technical solutions and capability improvements in support of the warfighter mission.

MCEN NETWORK DEFENSE

MCEN Network Defense (MND) is the set of functional capabilities and operational processes necessary to protect and defend the MCEN. This includes Computer Network Defense with associated Response Actions, Critical Information Protection, and the operational management of Information Assurance capabilities. MND activities consist of the policies and procedures that prepare systems, networks, and personnel to protect information. The following MCNOSC initiatives contribute to the MCEN net defense mission:

- *Marine Corps Computer Emergency Response Team* enables global network operations of the MCEN through protection, detection, and effective net defense response actions
- *Marine Corps Information Assurance Red Team*
- *Public Key Infrastructure* enterprise operations
- *Infrastructure Security* personnel operate and control Point of Presence equipment at all MCEN Boundaries
- *Vulnerability Management Team*

MCEN CONTENT MANAGEMENT

MCEN Content Management (MCM) is the set of functional capabilities and operational processes necessary to monitor, manage, and facilitate the visibility and accessibility of information within and across the MCEN. MCM maneuvers information across the Enterprise, focusing on positioning and repositioning of content to satisfy mission needs. MCM involves compiling, cataloging, caching, distributing and retrieving data, managing information flow to users, and enabling the execution of the commander's information dissemination policy. MCM enables information users to define and set information needs (profiles) to facilitate timely information delivery and to search information databases and retrieve required products.

MCM capabilities will be largely provided through MCEITS initiative. MCEITS will provision several Enterprise Information Technology Centers as well as a number of 'Distributed Platforms' and deployable 'Expeditionary Platforms' that will constitute the Marine Corps Enterprise Applications Environment. MCEITS will also provide a USMC Portal Solution. USMC applications and data will be hosted and stored within this environment and made available through the portal. The MCEITS Operations Center will work with its customers, mainly the USMC Functional Area Managers in deriving application hosting and portal solutions that ensure that required data and services are available to the right users in the right locations at the right time.